



219.40432X00  
Serial No. 09/963,637

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: BRIST et al.  
Serial No.: 09/963,637  
Filed: September 27, 2001  
For: WAVEGUIDE IN A PRINTED CIRCUIT BOARD  
AND METHOD OF FORMING THE SAME  
Group Art Unit: 2874  
Examiner: Sung H. Pak

**AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

May 28, 2003

Sir:

In response to the Office Action dated May 2, 2003, please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please cancel claim 20 without prejudice or disclaimer.

Please amend 5, 9, 10, 13-15, 17 and 19 as follows:

5. (Amended) The method of claim 1, wherein said at least one metalized surface comprises sidewall surfaces and a bottom surface of a waveguide structure.

RECEIVED  
MAY 30 2003  
TECHNOLOGY CENTER 2800

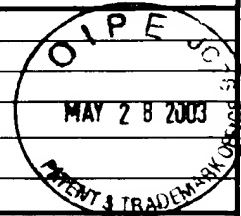
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
for FY 2003**

Effective 01/01/2003 Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$)**126.00****Complete if Known**

Application Number **09/963,637**  
 Filing Date **September 27, 2001**  
 First Named Inventor **BRIST et al.**  
 Examiner Name **2874**  
 Art Unit **Sung H. Pak**  
 Attorney Docket No. **219.40432X00**

**METHOD OF PAYMENT** (check all that apply)☐ Check ☒ Credit Card ☐ Money Order ☐ Other ☐ None☐ Deposit AccountDeposit Account Number **01-2135**Deposit Account Name **Antonelli, Terry, Stout & Kraus, LLP**

The Commissioner authorized to: (check all that apply)

☒ Charge fees indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☒ Charge fees indicated below, **except for the filing fee** to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid |
|----------------|-----------------|----------------|-----------------|------------------------|----------|
| 1001           | 750             | 2001           | 375             | Utility filing fee     |          |
| 1002           | 330             | 2002           | 165             | Design filing fee      |          |
| 1003           | 520             | 2003           | 260             | Plant filing fee       |          |
| 1004           | 750             | 2004           | 375             | Reissue filing fee     |          |
| 1005           | 160             | 2005           | 80              | Provisional filing fee |          |

**SUBTOTAL (1)****2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 33                 | -26** = 7    | x 18           | = 126.00 |
| Indep. Claims      | 4            | -4** = 0       | x 0 = 0  |
| Multiple Dependent |              |                | =        |

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  |
|----------------|-----------------|----------------|-----------------|--|
| 1202           | 18              | 2202           | 9               | Claims in excess of 20                                     |
| 1201           | 84              | 2201           | 42              | Independent claims in excess of 3                          |
| 1203           | 280             | 2203           | 140             | Multiple dependent claim, if not paid                      |
| 1204           | 84              | 2204           | 42              | ** Reissue independent claims over original patent         |
| 1205           | 18              | 2205           | 9               | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2) \$ 126.00**

\*\*or number previously paid, if greater. For Reissues, see above

**FEE CALCULATION** (continued)**3. ADDITIONAL FEES**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid |
|----------------|-----------------|----------------|-----------------|--|----------|
| 1051           | 130             | 2051           | 65              | Surcharge - late filing fee or oath  |          |
| 1052           | 50              | 2052           | 25              | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053           | 130             | 2053           | 130             | Non-English specification  |          |
| 1812           | 2,520           | 1812           | 2,520           | For filing a request for <i>ex parte</i> reexamination                     |          |
| 1804           | 920*            | 1804           | 920*            | Requesting publication of SIR prior to Examination action                  |          |
| 1805           | 1,840*          | 1805           | 1,840*          | Requesting publication of SIR after Examiner action                        |          |
| 1251           | 110             | 2251           | 55              | E-tension for reply within first month                                     |          |
| 1252           | 410             | 2252           | 205             | E-tension for reply within second month                                    |          |
| 1253           | 930             | 2253           | 465             | E-tension for reply within third month                                     |          |
| 1254           | 1,450           | 2254           | 725             | E-tension for reply within fourth month                                    |          |
| 1255           | 1,970           | 2255           | 985             | E-tension for reply within fifth month                                     |          |
| 1401           | 320             | 2401           | 160             | Notice of Appeal   |          |
| 1402           | 320             | 2402           | 160             | Filing a brief in support of an appeal                                     |          |
| 1403           | 280             | 2403           | 140             | Request for oral hearing   |          |
| 1451           | 1,510           | 1451           | 1,510           | Petition to institute a public use proceeding                              |          |
| 1452           | 110             | 2452           | 55              | Petition to revive - unavoidable   |          |
| 1453           | 1,300           | 2453           | 650             | Petition to revive - unintentional   |          |
| 1501           | 1,300           | 2501           | 650             | Utility issue fee (or reissue)   |          |
| 1502           | 470             | 2502           | 235             | Design issue fee   |          |
| 1503           | 630             | 2503           | 315             | Plant issue fee  |          |
| 1406           | 130             | 1450           | 130             | Petitions to the Commissioner  |          |
| 1807           | 50              | 1807           | 50              | Processing fee under 37 CFR 1.17(q)  |          |
| 1806           | 180             | 1806           | 180             | Submission of Information Disclosure Statement                             |          |
| 8021           | 40              | 8021           | 40              | Recording each patent assignment per property (times number of properties) |          |
| 1809           | 750             | 2809           | 375             | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 1810           | 750             | 2810           | 375             | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801           | 750             | 2801           | 375             | Request for Continued Examination (RCE)                                    |          |
| 1802           | 900             | 1802           | 900             | Request for expedited examination of a design application                  |          |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)**

TECHNOLOGY CENTER 2800

MAY 30 2003

**SUBMITTED BY****Complete (if applicable)**

|                   |                      |                                   |                   |           |                       |
|-------------------|----------------------|-----------------------------------|-------------------|-----------|-----------------------|
| Name (Print Type) | <b>David C. Oren</b> | Registration No. (Attorney Agent) | <b>38,694</b>     | Telephone | <b>(703) 312-6600</b> |
| Signature         |                      | Date                              | <b>05/28/2003</b> |           |                       |

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.